

Amendments to the Specification:

Please amend:

The paragraph that at lines 8-20 on page 2 of this application as filed as follows:

As is described in U.S. Patent No. 5,203,762 the dissipation of the regenerative energy can be achieved by connecting the backdrive VFD 20 to the maindrive VFD 18 through a common DC bus, such as bus 22 of the drawing figure, or with a separate DC to AC converter to put energy back unto the AC power line. As is described in U.S. patent application serial number 10/094,374 which was filed on March 8, 2002, now U.S. Patent No. 6,600,278, the disclosure of which is hereby incorporated herein by reference, a clean power bus drive system can be created for decanter centrifuges by using a M1 pulse VFD for the main drive and a M2 pulse VFD for the backdrive to give rise to a N pulse VFD where $N = M1 + M2$.

The paragraph that starts at line 29 on page 5 and ends at line 12 on page 6 of this application as filed as follows:

In a system for controlling a decanter centrifuge, the decanter centrifuge when rotating having kinetic energy. The control system comprises a variable frequency drive receiving power from an AC source and connected to a main drive motor, the main ~~driver~~ drive motor for rotating a bowl of the centrifuge; a variable frequency drive connected to a back drive motor, the back drive motor for rotating a conveyor of the centrifuge; a common DC bus connected to the variable frequency drive connected to the main drive motor and to the variable frequency drive connected to the back drive motor; and means connected to the common DC bus and for providing lubrication to the centrifuge,

a method for controlling the centrifuge in the absence of

10/601,682

power from an AC source. The method comprises:

driving both the main drive motor and the back drive motor
~~providing~~, in the absence of power from the AC source, from
power provided for the DC bus through the variable frequency
drive connected to the main drive motor from the decanter
centrifuge kinetic energy to simultaneously control the bowl
rotation and the conveyor rotation.